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February 1964

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EVALUATIONS OF SOVIET SURFACE-TO-SURFACE MISSILE DEPLOYMENT

11TH REVISION

A Report of the Deployment Working Group

of the

Guided Missiles and Astronautics Intelligence Committee

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The Guided Missiles and Astronautics Intelligence Committee (GMAIC) wishes to express its appreciation to the National Photographic Interpretation Center for its assistance in the editing, illustration, and publication of this report.

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PREFACE

This report, formerly published bimonthly by the GMAIC Deployment Working Group (DWG) in mimeograph form, has been expanded to include additional data. It will continue to be published bimonthly in this new format.

Dissemination of the report was previously limited to holders of the DWG report, Soviet Surface-to-Surface Missile Deployment. Because the information contained herein is both supplemental and self-sustaining, distribution will no longer be limited to holders of the above report.

The current format provides a comprehensive, ready-reference listing of all ICBM, IRBM, and MRBM deployment locations, types of site configurations, photographic references, estimated construction and operational status, and other evaluations by the DWG. These data constitute the majority view of the DWG membership, and may not correspond precisely to individual assessments by each member. Additional data may be added to future revisions.

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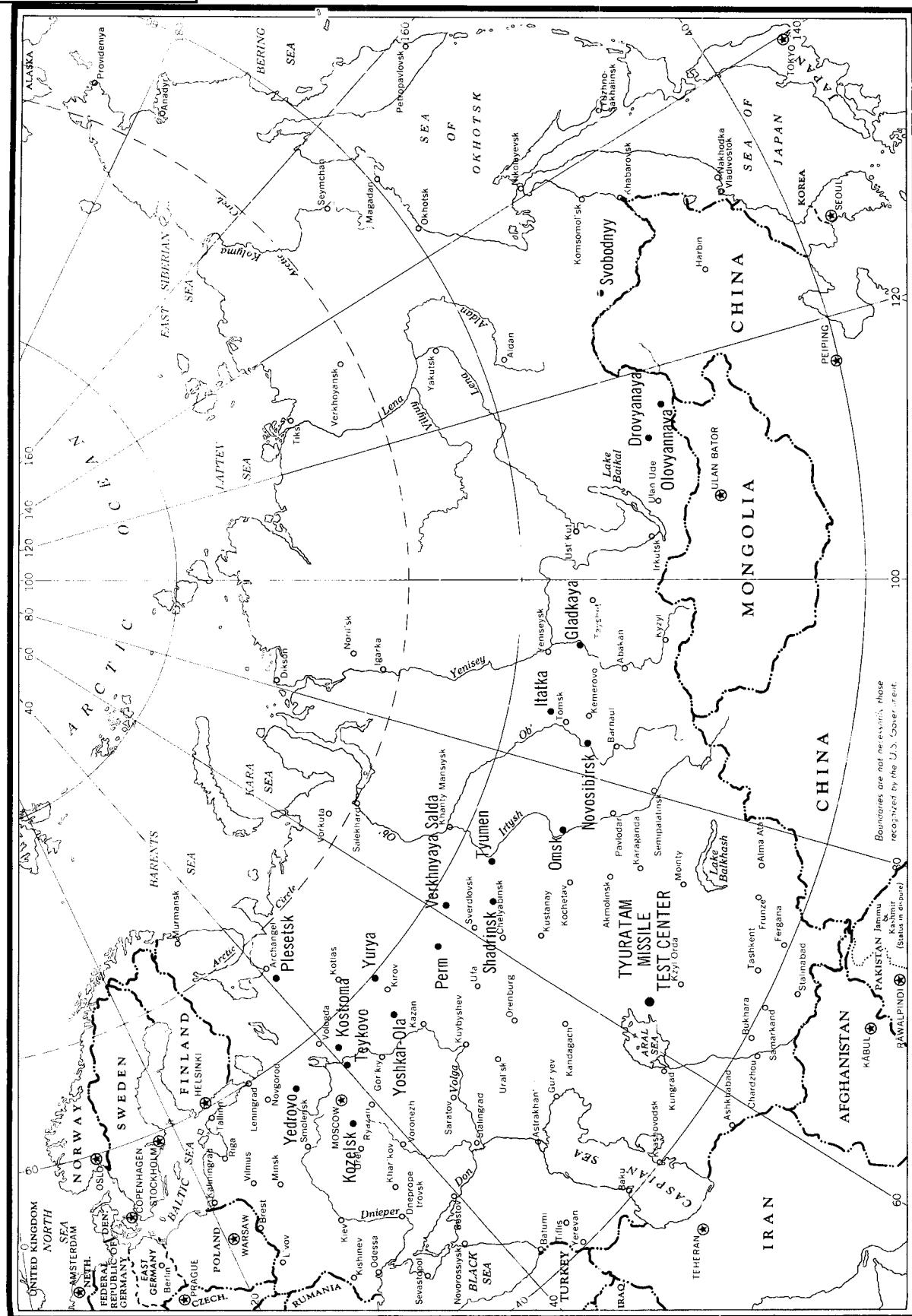


FIGURE 1. DEPLOYMENT OF SOVIET ICBM COMPLEXES.

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INTRODUCTION

This report is the eleventh revision of Evaluations of Soviet Surface-to-Surface Missile Deployment prepared by the Deployment Working Group of the Guided Missiles and Astronautics Intelligence Committee. The tenth revision, dated 1 December 1963 and disseminated under control number [redacted] can be destroyed in accordance with existing instructions for handling [redacted] materials.

[redacted] and continuing analysis of previous missions and other sources have provided additional information on the Soviet ballistic missile deployment program. The new data are reflected in Table 1 and in the estimates and operational status shown in Tables 2 and 3. Cutoff date for information contained in this report [redacted]

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SOVIET ICBM DEPLOYMENT

At 2 of the 18 ICBM complexes, 2 new hard sites and one new soft site have been identified or [redacted]. In addition, 3 hard sites, 2 previously evaluated as possible sites and one as a probable site, have been confirmed. These newly identified ICBM sites raise the total number of confirmed and probable deployed sites to 105 (238 launchers). Additionally, one site is carried in the possible category. Of the 238 launchers, almost 170 are considered to be operational. It is significant to note that in addition to Plesetsk we are now carrying three other complexes (Itatka, Verkhnyaya Salda, Yoshkar-Ola) with all sites estimated as operational and no new construction apparent. See Figure 1 for locations of deployed ICBM complexes.

The new ICBM launch sites are located at the following complexes:

GLADKAYA

Launch Site E(6), Type IIIA

SVOBODNYY

Launch Site G(7), Type IIIA

Launch Site H(8), Type IID

The ICBM launch sites have been designated by type, for the purpose of standardization, as shown and explained in Figure 2.

Test Activity

The probable SS-8 firing from the Tyuratam Missile Test Center (TTMTC) [redacted] [redacted] was the fifth successful SS-8 firing in 21 days (4 to Kamchatka and one to the mid-Pacific impact area). Only the mid-Pacific test shot evidenced Flim Flam data; this data backtracked the SS-8 to Launch Complex E at the TTMTC. [redacted]

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[redacted] a missile with an unusual telemetry package was fired to Kamchatka. These were probably modified SS-7 missiles, or possibly a new type. It is probable, based on Flim Flam data, that the missile fired on [redacted] was launched from the general vicinity of Launch Complex C at Tyuratam.

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Number of Launch Silos at Hard MRBM/IRBM Launch Sites

Tyumen Complex

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Launch Areas A and C at Tyumen appeared to be complete on [redacted]. The lack of activity continues at Launch Area B; however, we will continue to carry the site for an additional period of time.

As previously reported, we have been analyzing information relative to the number of launch silos at hard MRBM/IRBM sites. Having considered all available evidence, we conclude that both more likely contain three launch silos than the two previously reported. Tables 1 and 3 have been modified accordingly. We think it unlikely that the MRBM sites contain a fourth launch silo.

Omsk Complex

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We are carrying Launch Site A at Omsk as operational in Table 2. This is the first type IIIB site estimated to be operational. We base this judgment on an average 24-month construction timing for Type IIIA sites, and also on the fact that backfilling had commenced when this site was last observed on [redacted]

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Open Silo at Gelli Hard Launch Site No 3

[redacted] coverage of the Gelli IRBM Launch Complex furnished the first high-resolution photography of an open silo at any hard missile site. This photography provides us with additional detail, and indicates that the silo cover operates on rails (Figure 5).

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SOVIET MRBM/IRBM DEPLOYMENT

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[redacted] covered a large majority of all deployed MRBM and IRBM complexes; however, no new sites were identified. A reevaluation of [redacted]

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[redacted] revealed one newly identified soft IRBM site at Bayram-Ali. See Figure 3 for locations of deployed MRBM/IRBM complexes. Typical configurations of the launch sites are shown in Figure 4.

Although we cannot exclude the possibility of a few new starts, it is the opinion of the DWG that the initiation of new construction of both hard and soft MRBM and IRBM launch sites has ceased. Photographic evidence indicates that no new starts have occurred since [redacted]

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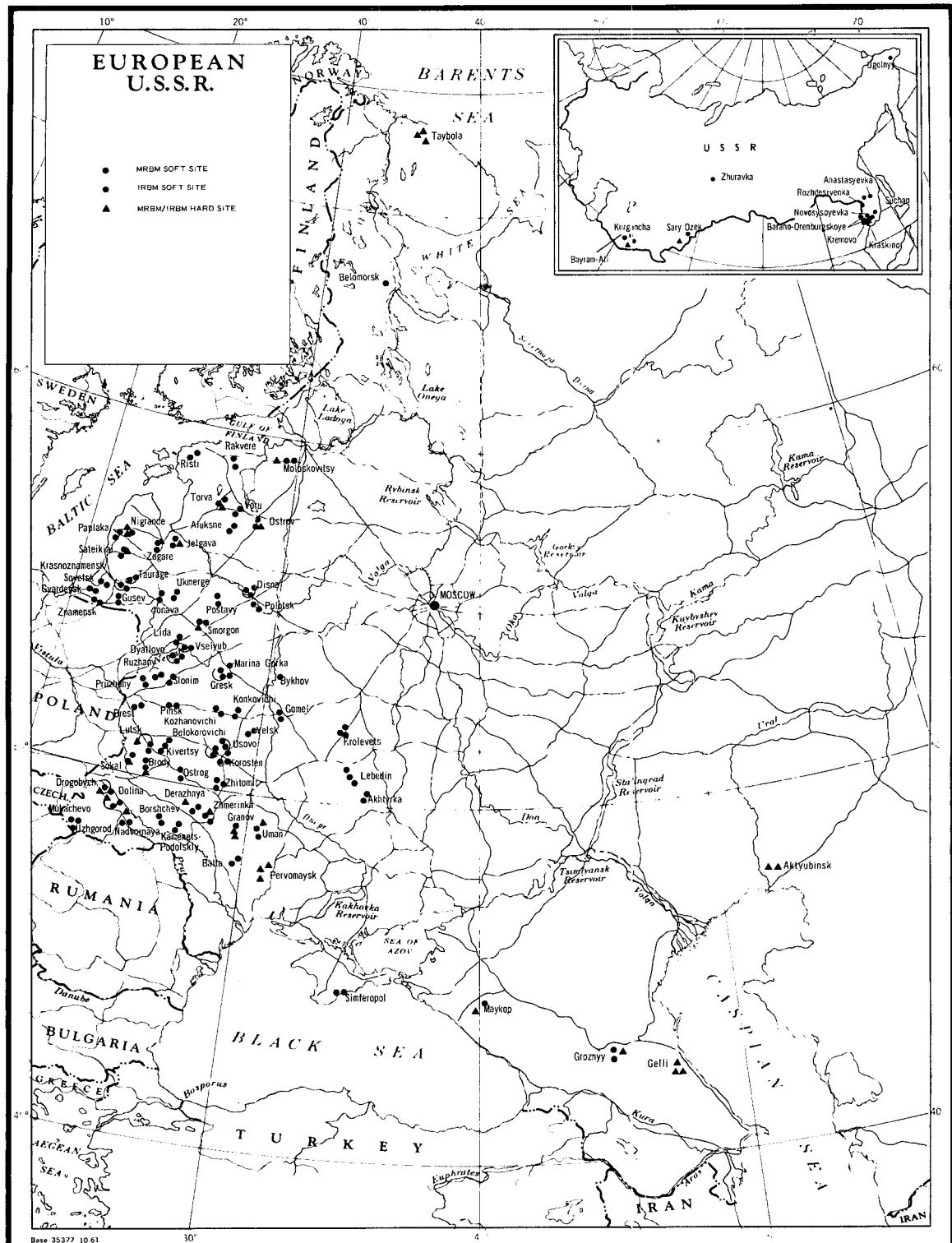


FIGURE 3. DEPLOYMENT OF SOVIET MRBM/IRBM COMPLEXES.

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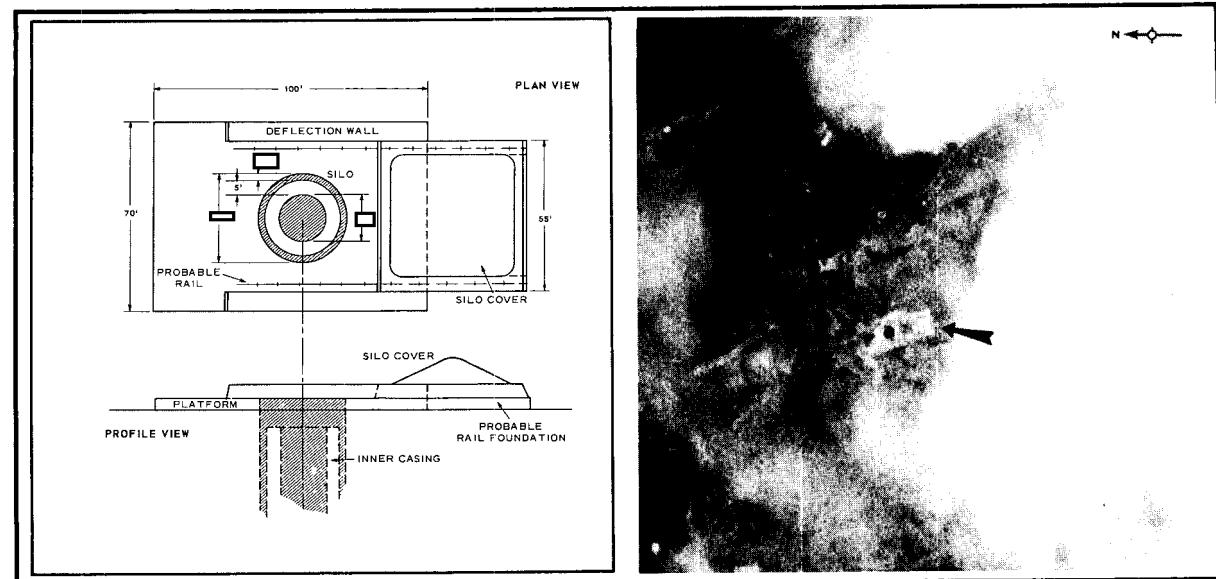


FIGURE 5. OPEN LAUNCH SILO AT GELLI HARD LAUNCH SITE NO. 3.

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Fixed Field-Type Sites

We have identified a ninth fixed field-type site at 56-39N 23-53E near the Jelgava MRBM Complex (Figure 7). Of the 9 sites, 6 are near MRBM sites, 2 are near IRBM sites, and one appears to be isolated. These sites consist of from one to four pads, each in a cleared area.

Of the two sites near IRBM complexes (Smorgon and Vainode), the facility near Vainode was present prior to construction of the IRBM site, and now appears to be abandoned. Although we are unable to determine the purpose of these areas, we do not believe that this type of position can support IRBM firings.

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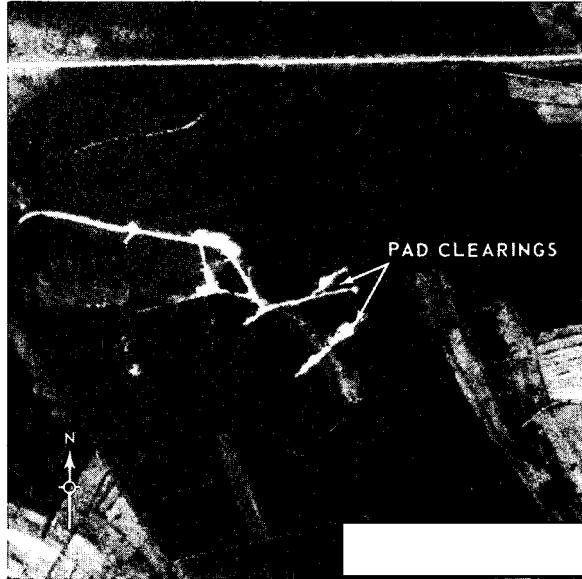
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For those sites in the proximity of identified MRBM complexes, we have been unable to discern a consistent configuration, or to determine their function. They could be used as training positions, alternate launch positions, or both.

25X1 IRBM Site at Bayram-Ali

A further readout of [redacted]

25X1 [redacted] revealed a completed soft IRBM site at 37-46-00N 62-12-00E near Bayram-Ali (Figure 8). This is the seventh MRBM/IRBM launch site identified which does not contain the usual housing and support facilities. Others in this category include the MRBM sites at Kraskino, Marina Gorka, Rozhdestvenka, and Uzhgorod; and the IRBM sites at Belomorsk and Zhuravka. It is not possible to determine their operational status or how they fit into the deployment pattern. The launch sites appear to be complete, however, and we continue to carry them in Tables 1 and 3.



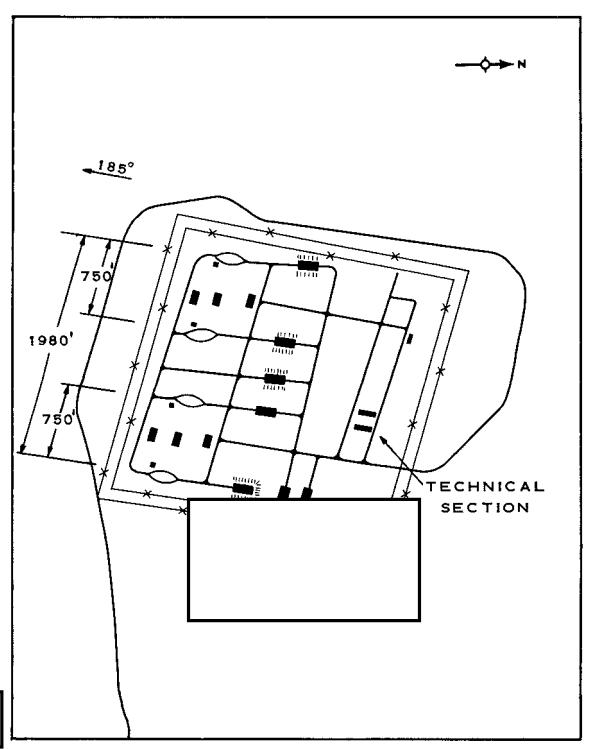
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FIGURE 7. FIXED FIELD-TYPE SITE NEAR JELGAVA MRBM COMPLEX.



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FIGURE 8. IRBM SITE NEAR BAYRAM-ALI.

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TABLE 1. SUMMARY OF ESTIMATED STATUS OF IDENTIFIED ICBM AND MRBM/IRBM LAUNCHERS AT DEPLOYED COMPLEXES*

Type	Sites	Launchers	Operational	U/C	Type	Sites	Launchers	Operational	U/C
ICBM					MRBM/IRBM				
I	3	4	4	0	I	84	336	336	0
II A	5	10	10	0	II	52	208	208	0
II B	29	58	58	0	III	15	60	60	0
II C	8	16	14	2	IV (MRBM)	21	63	60	3
II D	80	60	50	10	IV (IRBM)	19	57	36	21
III A	26	78	30	48	TOTAL	191	724	700	24
III B	4	12	3	9					
TOTAL	105	238	169	69					

*See Tables 2 and 3 for details. Figures include a third launch silo at Type III ICBM, and Type IV IRBM and MRBM sites.

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TABLE 2. SUMMARY EVALUATION OF SOVIET ICBM DEPLOYMENT

Location *	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negotiated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
						Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
				Soft	Hard														
DROVYANAYA				51-24N	113-00E	II B	2								63				Operational
Site A (1)				51-23N	113-07E	III A									64				U/C
Site B (2)				51-20N	113-01E	II D	2								64				Operational
Site C (3)				51-28N	113-04E	II D									64				Operational
Site D (4)				51-22N	112-50E	III A									65				Operational
Site E (5)				51-19N	112-53E	III A									65				U/C
Site F (6)																			U/C
GLADKAYA				56-20N	92-20E	II D	2								64				Operational
Site A (3)				56-25N	92-25E	II D									65				Operational
Site B (2)				56-30N	91-58E	III A									65				Operational
Site C (4)				56-20N	92-13E	III A									65				U/C
Site D (5)				56-25N	92-12E	III A									65				U/C
Site E (6)																			U/C
ITATKA				56-58N	85-33E	II B	2								63				Operational
Site A (1)				57-01N	85-39E	II B	2								63				Operational
Site B (2)				56-54N	85-39E	II D	2								63				Operational
Site C (3)																			Operational
KOSTROMA				58-09N	41-21E	II B	2								62				Operational
Site A (1)				58-02N	41-07E	II B	2								62				Operational
Site B (2)				57-59N	41-09E	II B	2								63				Operational
Site C (3)				58-05N	41-40E	II B	2								62				Operational
Site D (4)				57-57N	41-13E	III A									62				Operational
Site E (5)				57-55N	41-09E	II D									63				Operational
Site F (6)				58-06N	41-34E	II D	2								63				Operational
Site G (7)				58-03N	41-33E	III A									64				Operational
Site H (8) Probable															65				U/C
KOZELSK				53-54N	35-44E	II C	2								63				Operational
Site A (3)				53-48N	35-47E	II C	2								63				Operational
Site B (2)				53-46N	35-41E	III B									65				U/C
Site C (1)				53-52N	35-51E	II C	2								64				Operational
Site D (4)				53-51N	35-41E	III B									64				U/C
Site E (5)				53-41N	35-39E	III B									64				U/C
NOVSIBIRSK				55-19N	83-10E	II B	2								63				Operational
Site A (2)				55-13N	83-01E	III A									63				Operational
Site B (1)				55-23N	82-56E	III A									64				U/C
Site C (3)				55-21N	83-14E	II D	2								64				Operational
Site D (4)																			Operational
OLOVYANNAYA				50-54N	115-49E	III A									65				U/C
Site A (1)				50-55N	115-44E	III A									64				U/C
Site B (2)				51-01N	115-57E	III A									65				U/C
Site C (3)																			U/C
OMSK				55-09N	73-38E	III B									64				Operational
Site A (1)				55-11N	73-33E	Undet													Undetermined
PERM				57-41N	56-13E	II B	2								62				Operational
Site A (1)				57-42N	55-57E	II B	2								62				Operational
Site B (2)				57-37N	56-07E	II B	2								63				Operational
Site C (3)																			Operational

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TABLE 2. (Continued)

Location*	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negotiated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
PERM (Continued)																			
Site D (5)		57-43N 55-49E	II D	2															
Site E (6)		57-45N 56-00E	II D	2															
Site F (4)		57-41N 56-04E	III A	3															
PLESETSK																			
Site 1 (1)		62-55N 40-27E	I	2															
Site 2 (2)		62-56N 40-32E	I	1															
Site 3 (3)		62-57N 40-41E	I	1															
Site A (4)		62-58N 40-47E	II A	2															
Site B (5)		63-03N 40-58E	II B	2															
Site C (6)		63-01N 40-52E	III A	3															
Site D (8)		62-53N 40-50E	II C	2															
Site E (7)		62-50N 40-35E	II C	2															
SHADRINSK																			
Site A (1)		56-09N 63-52E	III A	3															
Site B (2)		56-10N 64-03E	III A	3															
Site C (3)		56-07N 63-57E	III A	3															
SVOBODNY																			
Site A (3)		51-55N 128-10E	II B	2															
Site B (1)		51-49N 128-19E	II B	2															
Site C (2)		51-53N 128-23E	II B	2															
Site D (4)		52-00N 128-06E	II D	2															
Site E (6)		51-43N 128-00E	II D	2															
Site F (3)		51-52N 128-13E	II D	2															
Site G (7)		51-38N 127-55E	IIIA	3															
Site H (8)		52-03N 128-08E	II D	2															
TEYKOVO																			
Site A (1)		56-55N 40-27E	II B	2															
Site B (2)		56-56N 40-33E	II B	2															
Site C (3)		56-53N 40-17E	II B	2															
Site D (4)		56-58N 40-40E	II D	2															
Site E (5)		56-48N 40-16E	II D	2															
Site F (6)		56-54N 40-22E	II D	2															
Site G (7)		56-46N 40-02E	II D	2															
TYUMEN																			
Site A (3)		56-52N 65-35E	II C	2															
Site B (1)		56-48N 65-38E	II C	2															
Site C (2)		56-51N 65-28E	II C	2															
VERKHNYAYA SAL																			
Site A (2)		58-09N 60-16E	II B	2															
Site B (1)		58-06N 60-22E	II A	2															
Site C (3)		58-10N 60-28E	II A	2															
Site D (4)		58-12N 60-34E	II B	2															
Site E (5)		58-14N 60-54E	II B	2															
Site F (7)		58-14N 60-41E	IIIA	3															
Site G (8)		58-13N 60-49E	IIIA	3															
Site H (9)		58-05N 60-13E	II D	2															
Site I (10)		58-07N 60-33E	II D	2															
YEDROVO																			
Site A (2)		57-48N 33-36E	II B	2															
Site B (1)		57-48N 33-14E	II B	2															
Site C (5)		57-49N 33-05E	II D	2															

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TABLE 2. (Continued)

Location*	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negotiated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status	
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th		
YEDROVO				57-48N	33-29E	II D	2													
Site D (4)				57-52N	33-17E	III A			3										Operational	
Site E (6)				57-43N	33-06E	II D	2												Operational	
Site F (6)				57-47N	33-02E	II D	2												Operational	
Site G (7)				57-49N	33-05E	III A			3										Operational	
Site H (9)				57-52N	33-27E														U/C	
Site I (3)																			Undetermined	
Undetermined 1																				
YOSHKAR-OLA				56-35N	48-10E	II B	2													
Site A (1)				56-36N	48-18E	II B	2												Operational	
Site B (2)				56-32N	48-25E	II B	2												Operational	
Site C (3)				56-32N	48-19E	II D	2												Operational	
Site D (4)				56-34N	48-14E	II D	2												Operational	
Site E (5)				56-37N	48-22E	II D	2												Operational	
Site F (6)																			Operational	
YURYA				59-09N	49-33E	II A	2													
Site A (2)				59-08N	49-41E	II A	2												Operational	
Site B (1)				59-12N	49-28E	II B	2												Operational	
Site C (3)				59-15N	49-24E	II B	2												Operational	
Site D (4)				59-22N	49-17E	III A			3										Operational	
Site E (5)				59-21N	49-13E	II B	2												Operational	
Site F (7)				59-04N	49-52E	III A			3										Operational	
Site G (6)				59-11N	49-46E	II D	2												Operational	
Site H (8)				59-20N	49-26E	II D	2												Operational	
Site I (11)				59-06N	49-45E	II D	2												Operational	
Site J (9)				59-13N	49-19E	III A			3										U/C	
Site K (10)																			U/C	
SUB TOTALS							105		148		90								U/C	
TYURATAM																				
Complex A1 (1)				45-55N	63-20E	I	1												Operational	
A2				45-55N	63-20E	I	1												Operational	
Complex B (2)				45-59N	63-33E	I	1												Operational	
Complex C1 (3)				45-48N	63-39E	II	1												Operational	
C2				45-48N	63-39E	II	1												Operational	
C3				45-48N	63-39E	II	1												Operational	
Complex D1 (4)				45-59N	63-57E	III A	3												Operational	
D2 (9)				45-59N	63-57E	III			3										U/C	
Complex E1 (6)				45-58N	63-12E	IC Prototype	1												Operational	
E2				45-48N	63-12E	II C	1												Operational	
E3				45-48N	63-12E	II C	1												Operational	
Complex F (5)				46-02N	63-06E	III B Prototype	3												Operational	
Complex G1 (7)				46-03N	62-56E	Undet	2												Operational	
G2 (11)				46-03N	62-56E	Undet	2												U/C	
Complex H (8)				45-59N	63-42E	Undet	2												U/C	
TOTALS							116		163		99									U/C

*TDI site designators are indicated in parentheses.

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LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR STATUS
AKHTYRKA Launch Complex		50-15-45N 34-50-15E	II	4		Complete
Launch Site No 1 (AKHTYRKA 1)		50-22-00N 34-57-15E	II	4		Complete
Launch Site No 2 (AKHTYRKA 2)						
AKTYUBINSK Launch Complex		49-57-45N 56-51-15E	IV (IR)	3		Early
Launch Site No 1 (KARAKHOBDA 1)		50-00-30N 56-58-15E	IV (IR)	3		Mid
Launch Site No 2 (PETROVSKIY 1)						
ALUKSNE Launch Complex		57-21-15N 26-44-45E	II	4		Complete
Launch Site No 1 (LEJASCIEMS)		57-25-15N 26-50-00E	II	4		Complete
Launch Site No 2 (RUSKI)		57-13-00N 26-33-30E	IV (MR)	3		Complete
ANASTASYEVKA Launch Complex		48-35-00N 135-38-45E	II	4		Complete
Launch Site No 1 (ANASTASYEVKA 1)		48-36-45N 135-41-30E	II	4		Complete
Launch Site No 2 (ANASTASYEVKA 2)						
BALTA Launch Complex		48-01-45N 29-33-30E	II	4		Complete
Launch Site No 1 (BALTA 1)		48-07-45N 29-34-30E	II	4		Complete
Launch Site No 2 (BALTA 2)						
BARANO-ORENBURGSKOYE Complex		44-15-30N 131-23-00E	I	4		Complete
Launch Site No 1 (SOFIYE ALEKSEYEVSKOYE)		44-19-45N 131-30-15E	I	4		Complete
Launch Site No 2 (BARANO-ORENBURGSKOYE)						
BAYRAM-ALI Launch Complex		37-46-00N 62-12-00E	III	4		Complete
Launch Site No 1 (BAYRAM-ALI)						
BELOKOROVICHI Launch Complex		51-08-45N 28-03-30E	I	4		Complete
Launch Site No 1 (OLEVSK 1)		51-10-30N 28-00-15E	I	4		Complete
Launch Site No 2 (OLEVSK 2)		51-04-30N 28-07-00E	IV (MR)	3		Complete
BELOMORSK Launch Complex		64-26-15N 34-18-15E	III	4		Complete
Launch Site No 1 (RAMOYE)						
BORSHCHEV Launch Complex		48-51-00N 26-08-30E	I	4		Complete
Launch Site No 1 (SKALA PODOLSKAYA 1)		48-53-15N 26-03-30E	I	4		Complete
Launch Site No 2 (SKALA PODOLSKAYA 2)						
BREST Launch Complex		51-49-00N 24-01-00E	II	4		Complete
Launch Site No 1 (BREST 1)		51-51-45N 24-01-45E	II	4		Complete
Launch Site No 2 (BREST 2)						
BRODY Launch Complex		50-13-15N 25-05-00E	I	4		Complete
Launch Site No 1 (BRODY 2)		50-20-15N 25-05-30E	I	4		Complete
Launch Site No 2 (BERESTECHKO)		50-06-00N 25-12-00E	IV (MR)	3		Complete
BYKHOV Launch Complex		53-41-30N 30-20-30E	II			Complete
Launch Site No 1 (POSSIBLE) (SLEDYUKI)						
DERAZHNYA Launch Complex		49-21-00N 27-26-30E	II	4		Complete
Launch Site No 1 (DERAZHNYA 1)		49-26-30N 27-29-00E	II	4		Complete
Launch Site No 2 (DERAZHNYA 2)		49-24-45N 27-08-45E	IV (MR)	3		Complete
DISNA Launch Complex		55-35-15N 28-15-45E	I	4		Complete
Launch Site No 1 (DISNA)		55-36-00N 28-24-30E	I	4		Complete
Launch Site No 2 (ZELKI)		55-42-00N 28-27-15E	II	4		Complete
Launch Site No 3 (BORKOVICHI)						
DOLINA Launch Complex		49-04-00N 24-03-30E	I	4		Complete
Launch Site No 1 (DOLINA 1)		49-06-15N 24-08-30E	I	4		Complete
Launch Site No 2 (DOLINA 2)		49-06-45N 23-51-15E	IV (MR)	3		Complete
Hard Launch Site (BOLEKHOV)						

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LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
DROGOBYCH Launch Complex						
Launch Site No 1 (MEDENITSA)		49-22-00N 23-45-30E	I	4		Complete
Launch Site No 2 (DROGOBYCH)		49-24-45N 23-34-45E	I	4		Complete
Hard Launch Site (STRYY)		49-16-30N 23-43-00E	IV (MR)	3		Complete
DYATLOVO Launch Complex						
Launch Site No 1 (DYATLOVO)		53-33-00N 25-16-30E	I	4		Complete
Launch Site No 2 (BEREZOVKA)		53-35-30N 25-17-45E	I	4		Complete
Launch Site No 3 (ZBLYANY)		53-36-15N 25-26-30E	II	4		Complete
GELLI Launch Complex						
Hard Launch Site No 1 (KAKASHURA)		42-39-15N 47-27-00E	IV (IR)	3		Complete
Hard Launch Site No 2 (GELLI)		42-45-45N 47-28-15E	IV (IR)	3		Complete
Hard Launch Site No 3 (PARAUL)		42-47-45N 47-23-00E	IV (IR)	3		Complete
GOMOV Launch Complex						
Launch Site No 1 (BORKHOV 1)		52-18-45N 30-43-00E	II	4		Complete
Launch Site No 2 (BORKHOV 2)		52-24-45N 30-38-30E	II	4		Complete
GRANOV Launch Complex						
Launch Site No 1 (GRANOV 1)		48-56-15N 29-30-30E	III	4		Complete
Hard Launch Site (GRANOV 2)		48-49-30N 29-29-15E	IV (IR)	3		Mid
Hard Launch Site (KALNIK)		48-59-30N 29-22-15E	IV (IR)	3		Mid
GRESK Launch Complex						
Launch Site No 1 (GRESK 1)		53-14-50N 27-42-15E	I	4		Complete
Launch Site No 2 (GRESK 2)		53-17-00N 27-41-15E	I	4		Complete
Launch Site No 3 (URECHYE)		53-11-30N 27-58-30E	II	4		Complete
GROZNYY Launch Complex						
Launch Site No 1 (SUNZHENSKOYE)		43-08-00N 44-55-00E	I	4		Complete
Launch Site No 2 (NESTEROVSKAYA)		43-12-00N 44-57-00E	I	4		Complete
Launch Site No 3 (ACHKHOY-MARTIN)		43-10-00N 45-11-00E	IV (MR)	3		Complete
GUSEV Launch Complex						
Launch Site No 1 (GUSEV 1)		54-41-30N 22-05-15E	I	4		Complete
Launch Site No 2 (GUSEV 2)		54-44-15N 22-04-15E	I	4		Complete
GVARDEYSK Launch Complex						
Launch Site No 1 (GVARDEYSK 2)		54-40-30N 21-08-00E	I	4		Complete
Launch Site No 2 (GVARDEYSK 1)		54-45-15N 21-09-15E	I	4		Complete
JELGAVA Launch Complex						
Launch Site No 1 (IECAVA 1)		56-35-30N 24-03-45E	II	4		Complete
Launch Site No 2 (IECAVA 2)		56-39-45N 24-08-00E	II	4		Complete
Hard Launch Site (IECAVA 3)		56-33-15N 24-20-30E	IV (MR)	3		Complete
JONAVA Launch Complex						
Launch Site No 1 (KARMELAVA)		54-57-15N 24-06-00E	II	4		Complete
Launch Site No 2 (JONAVA)		55-01-00N 24-14-15E	II	4		Complete
KAMENETS-PODOLSKIY Launch Complex						
Launch Site No 1 (KAMENETS-PODOLSKIY)		48-51-15N 26-42-30E	II	4		Complete
Launch Site No 2 (DUNAYEVTSY)		48-55-15N 26-59-15E	II	4		Complete
KIVERTSY Launch Complex						
Launch Site No 1 (KIVERTSY 1)		50-52-45N 25-30-45E	I	4		Complete
Launch Site No 2 (KIVERTSY 2)		50-57-00N 25-36-15E	I	4		Complete
Launch Site No 3 (TROSTYANETS)		50-58-30N 25-39-15E	II	4		Complete
KONKOVICHI Launch Complex						
Launch Site No 1 (PETRIKOV)		52-10-30N 28-24-30E	I	4		Complete
Launch Site No 2 (KONKOVICHI)		58-15-30N 28-37-45E	I	4		Complete

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KOROSTEN Launch Complex Launch Site No 1 (KOROSTEN 1) Launch Site No 2 (KOROSTEN 2)		50-51-45N 28-18-45E 50-52-30N 28-30-30E	II II	4 4		Complete Complete
KOZHANOVICHI Launch Complex Launch Site No 1 (KOZHANOVICHI 1) Launch Site No 2 (KOZHANOVICHI 2)		52-10-30N 27-51-30E 52-11-45N 27-48-30E	I I	4 4		Complete Complete
KRASKINO Launch Complex Launch Site No 1 (KRASKINO)		42-44-00N 130-40-45E	II	4		Complete
KRASNOZNAMENSK Launch Complex Launch Site No 1 (VIESVILLE) Launch Site No 2 (RAGNIT)		55-01-30N 22-23-00E 55-01-30N 22-11-30E	I I	4 4		Complete Complete
KREMOVO LAUNCH COMPLEX Launch Site No 1 (PROBABLE) (KREMOVO) Launch Site No 2 (PROBABLE) (LYALICHI)		44-01-24N 132-20-39E 44-02-30N 132-26-26E	I I	4 4		Complete Complete
KROLEVETS Launch Complex Launch Site No 1 (KROLEVETS 1) Launch Site No 2 (KROLEVETS 2) Launch Site No 3 (KROLEVETS 3)		51-36-45N 33-28-45E 51-40-45N 33-29-30E 51-43-45N 33-43-45E	III III III	4 4 4		Complete Complete Complete
KURGANCHA Launch Complex Launch Site No 1 (KURGANCHA 1) Launch Site No 2 (KURGANCHA 2) Hard Launch Site (TYM)		39-37-15N 65-54-00E 39-37-30N 65-57-15E 39-35-15N 65-42-15E	I I IV (MR)	4 4 3		Complete Complete Complete
LEBEDIN Launch Complex Launch Site No 1 (LEBEDIN 1) Launch Site No 2 (LEBEDIN 2) Launch Site No 3		50-33-00N 34-26-00E 50-35-45N 34-24-45E 50-38-00N 34-27-30E	III III III	4 4 4		Complete Complete Complete
LIDA Launch Complex Launch Site No 1 (LIDA 1) Launch Site No 2 (LIDA 2)		53-47-00N 25-21-30E 53-57-00N 25-28-00E	I I	4 4		Complete Complete
LUTSK Launch Complex Launch Site No 1 (LUTSK 1) Launch Site No 2 (LUTSK 2) Hard Launch Site (VLADMIR-VOLYNSKIY)		50-46-45N 25-04-15E 50-50-15N 25-03-00E 50-48-30N 24-42-30E	I I IV (MR)	4 4 3		Complete Complete Complete
MARINA GORKA Launch Complex Launch Site No 1 (MARINA GORKA)		53-26-30N 27-45-45E	II	4		Complete
MAYKOP Launch Complex Launch Site No 1 (KURDZHIPSKAYA) Hard Launch Site (SHIRVANSKAYA)		44-31-45N 40-00-45E 44-25-30N 39-54-00E	II IV (MR)	4 3		Complete Complete
MOLOSKOVITSY Launch Complex Launch Site No 1 (MOLOSKOVITSY 1) Launch Site No 2 (MOLOSKOVITSY 2) Hard Launch Site (GURELEVO)		59-28-45N 29-06-00E 59-29-30N 29-12-30E 59-25-30N 28-52-30E	II II IV (MR)	4 4 3		Complete Complete Complete
MUKACHEVO Launch Complex Launch Site No 1 (MUKACHEVO 1) Launch Site No 2 (MUKACHEVO 2)		48-19-00N 22-31-00E 48-19-30N 22-37-45E	I I	4 4		Complete Complete
NADVORNAYA Launch Complex Launch Site No 1 (PARYSHCHE) Launch Site No 2 (NOVA VES) Hard Launch Site (OTYNYA)		48-38-00N 24-42-00E 48-39-30N 24-48-15E 48-47-45N 24-50-15E	I I IV (MR)	4 4 3		Complete Complete Complete

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LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
NIGRANDE Launch Complex						
Launch Site No 1 (NIGRANDE)		56-31-00N 22-02-15E	III	4		Complete
Hard Launch Site (SKRUNDA)		56-35-45N 21-49-15E	IV (IR)	3		Complete
Hard Launch Site (VAINODE)		56-28-30N 21-50-15E	IV (IR)	3		Late
NOVOSYSOYEVKA Launch Complex						
Launch Site No 1 (NOVOSYSOYEVKA 1)		44-11-30N 133-26-00E	III	4		Complete
Hard Launch Site (NOVOSYSOYEVKA 2)		44-07-45N 133-27-30E	IV (IR)	3		Complete
Hard Launch Site (POSSIBLE)		44-07-45N 133-25-45E	IV (IR)			Udet
OSTROG Launch Complex						
Launch Site No 1 (OSTROG 1)		50-14-30N 26-44-00E	I	4		Complete
Launch Site No 2 (OSTROG 2)		50-17-15N 26-41-30E	I	4		Complete
OSTROV Launch Complex						
Launch Site No 1 (ASANOVSCHINA)		57-32-45N 28-12-00E	I	4		Complete
Launch Site No 2 (SHEVELEVO)		57-37-30N 28-12-45E	I	4		Complete
Hard Launch Site (REDKINO)		57-24-30N 28-26-45E	IV (MR)	3		Mid
PAPLAKA Launch Complex						
Launch Site No 1 (PAPLAKA 1)		56-24-00N 21-15-30E	I	4		Complete
Launch Site No 2 (PAPLAKA 2)		56-25-30N 21-15-30E	I	4		Complete
PERVOMAYSK Launch Complex						
Hard Launch Site No 1 (KAMENNYY MOST)		47-58-30N 30-53-00E	IV (IR)	3		Complete
Hard Launch Site No 2 (SEMENOVKA 1)		47-58-45N 30-59-30E	IV (IR)	3		Complete
Hard Launch Site No 3 (SEMENOVKA 2)		47-53-45N 30-57-30E	IV (IR)	3		Late
PINSK Launch Complex						
Launch Site No 1 (IVANOVO)		52-10-45N 25-41-00E	I	4		Complete
Launch Site No 2 (MOTOL)		52-12-45N 25-44-45E	I	4		Complete
POLOTSK Launch Complex						
Launch Site No 1 (POLOTSK 1)		55-22-45N 28-44-00E	II	4		Complete
Launch Site No 2 (POLOTSK 2)		55-24-15N 28-33-30E	II	4		Complete
POSTAVY Launch Complex						
Launch Site No 1 (POSTAVY)		55-09-45N 26-54-15E	II	4		Complete
Launch Site No 2 (KOZYANY)		55-20-30N 26-51-30E	II	4		Complete
Hard Launch Site (POSTAVY 2)		55-06-15N 27-00-15E	IV (MR)	3		Late
PRUZHANY Launch Complex						
Launch Site No 1 (PRUZHANY 1)		52-30-30N 24-08-15E	II	4		Complete
Launch Site No 2 (PRUZHANY 2)		52-33-00N 24-07-00E	II	4		Complete
RAKVERE Launch Complex						
Launch Site No 1 (SIMUNA)		59-08-30N 26-26-30E	II	4		Complete
Launch Site No 2 (VAIKE MAARJA)		59-11-30N 26-20-45E	II	4		Complete
RISTI Launch Complex						
Launch Site No 1 (RISTI 1)		59-04-00N 24-03-15E	I	4		Complete
Launch Site No 2 (RISTI 2)		59-06-30N 24-06-30E	I	4		Complete
ROZHDESTVENKA Launch Complex						
Launch Site No 1 (ROZHDESTVENKA)		45-47-15N 133-43-15E	II	4		Complete
RUZHANY Launch Complex						
Launch Site No 1 (KRUPA 1)		52-48-15N 24-42-00E	II	4		Complete
Launch Site No 2 (KRUPA 2)		52-49-30N 24-45-30E	II	4		Complete
SARY OZEK Launch Complex						
Launch Site No 1 (KARA BABAU 1)		44-32-00N 77-46-45E	III	4		Complete
Hard Launch Site 2 (KARA BABAU 2)		44-31-00N 77-58-45E	IV (IR)	3		Complete
Hard Launch Site 3 (KARA BABAU 3)		44-31-00N 77-48-00E	IV (IR)	3		Late

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SATEKIAI Launch Complex						
Launch Site No 1 (SALANTAI 1)		55-59-45N 21-38-00E	I	4		Complete
Launch Site No 2 (SALANTAI 2)		56-02-15N 21-41-30E	I	4		Complete
Hard Launch Site (ZEMACIU KALVARIJA)		56-01-30N 21-53-30E	IV (MR)	3		Complete
SIMFEROPOL Launch Complex						
Launch Site No 1 (MAZANKA 1)		44-54-15N 34-20-00E	I	4		Complete
Launch Site No 2 (BALKI 1)		44-57-15N 34-25-45E	I	4		Complete
SLONIM Launch Complex						
Launch Site No 1 (BYTEN 1)		52-52-30N 25-21-00E	I	4		Complete
Launch Site No 2 (BYTEN 2)		52-55-30N 25-21-30E	I	4		Complete
SMORGON Launch Complex						
Launch Site No 1 (SMORGON 1)		54-31-45N 26-17-30E	III	4		Complete
Launch Site No 2 (SMORGON 3)		54-36-15N 26-23-15E	III	4		Complete
Hard Launch Site (SMORGON 2)		54-26-15N 26-18-15E	IV (IR)	3		Complete
SOKAL Launch Complex						
Launch Site No 1 (SOKAL 1)		50-23-00N 24-18-30E	I	4		Complete
Launch Site No 2 (SOKAL 2)		50-27-30N 24-20-45E	I	4		Complete
Hard Launch Site (SOKAL 3)		50-20-15N 24-26-00E	IV (MR)	3		Complete
SOVETSK Launch Complex						
Launch Site No 1 (SLAVSK 1)		54-59-15N 21-37-15E	I	4		Complete
Launch Site No 2 (SLAVSK 2)		55-00-00N 21-29-00E	I	4		Complete
SUCHAN Launch Complex						
Launch Site No 1 (NOVITSKOYE)		43-01-45N 133-17-15E	I	4		Complete
Launch Site No 2 (SEVERNYY SUCHAN)		43-10-00N 133-20-00E	I	4		Complete
TAURAGE Launch Complex						
Launch Site No 1 (TAURAGE 3)		55-05-15N 22-19-30E	I	4		Complete
Launch Site No 2 (TAURAGE 1)		55-10-15N 22-20-45E	I	4		Complete
TAYBOLA Launch Complex						
Hard Launch Site No 1 (TAYBOLA 1)		68-28-15N 33-15-15E	IV (IR)	3		Complete
Hard Launch Site No 2 (TAYBOLA 2)		68-30-00N 33-23-00E	IV (IR)	3		Complete
Hard Launch Site No 3 (TAYBOLA 3)		68-25-45N 33-29-30E	IV (IR)	3		Complete
TORVA Launch Complex						
Launch Site No 1 (TORVA 1)		57-56-30N 26-04-30E	I	4		Complete
Launch Site No 2 (TORVA 2)		57-59-15N 26-05-15E	I	4		Complete
Hard Launch Site (TSIRGULIINA)		57-49-45N 26-12-15E	IV (MR)	3		Complete
UGOLNYY Launch Complex						
Launch Site No 1 (UGOLNYY)		64-46-15N 177-58-00E	II	4		Complete
UKMERGE Launch Complex						
Launch Site No 1 (VEPRIAI)		55-08-00N 24-38-45E	I	4		Complete
Launch Site No 2 (UKMERGE)		55-11-15N 24-42-30E	I	4		Complete
UMAN Launch Complex						
Launch Site No 1 (MOLODETSKOYE)		48-53-45N 30-27-45E	I	4		Complete
Launch Site No 2 (MANKOVKA)		48-57-45N 30-34-00E	I	4		Complete
Hard Launch Site (KISHENTSY)		49-00-15N 30-13-45E	IV(MR)	3		Complete
USOVO Launch Complex						
Launch Site No 1 (OVRUCH 1)		51-17-45N 28-16-00E	I	4		Complete
Launch Site No 2 (OVRUCH 2)		51-18-45N 28-10-30E	I	4		Complete
Launch Site No 3 (LIPNIKI)		51-12-00N 28-26-30E	II	4		Complete
UZHGOROD Launch Complex						
Launch Site No 1 (UZHGOROD)		48-33-30N 22-13-30E	II	4		Complete

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TABLE 3. (Continued)							
	LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
VORU Launch Complex			57-46-00N 26-47-15E	II	4		Complete
Launch Site No 1 (VORU 1)			57-49-15N 26-50-30E	II	4		Complete
Launch Site No 2 (VORU 2)							
VSELYUB Launch Complex			53-46-15N 25-43-00E	I	4		Complete
Launch Site No 1 (VSELYUB 1)			53-48-00N 25-46-45E	I	4		Complete
Launch Site No 2 (VSELYUB 2)							
YELSK Launch Complex			51-42-00N 29-12-30E	I	4		Complete
Launch Site No 1 (YELSK 1)			51-47-00N 29-18-00E	I	4		Complete
Launch Site No 2 (YELSK 2)							
ZAGARE Launch Complex			56-23-15N 23-19-30E	I	4		Complete
Launch Site No 1 (ZAGARE 1)			56-29-00N 23-21-30E	I	4		Complete
Launch Site No 2 (ZAGARE 2)			56-24-00N 23-36-45E	IV (MR)	3		Complete
ZHITOMIR Launch Complex			50-04-45N 28-16-15E	II	4		Complete
Launch Site No 1 (ZHITOMIR 1)			50-10-15N 28-16-00E	II	4		Complete
Launch Site No 2 (ZHITOMIR 2)			50-05-45N 28-22-45E	II	4		Complete
ZHMERINKA Launch Complex			49-09-15N 28-12-15E	II	4		Complete
Launch Site No 1 (GNIVAN)			49-10-30N 28-04-45E	II	4		Complete
Launch Site No 2 (ZHMERINKA)			49-17-30N 28-20-15E	IV (MR)	3		Complete
ZHURAVKA Launch Complex			54-36-30N 76-40-45E	III	4		Complete
Launch Site 1							
ZNAMENSK Launch Complex			54-33-00N 21-11-15E	I	4		Complete
Launch Site No 1 (ZNAMENSK 1)			54-35-30N 21-08-45E	I	4		Complete
Launch Site No 2 (ZNAMENSK 2)							

*TDI site designators are indicated in parentheses.

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